CLAIMS

What is claimed is:

1 1. A portable chocolate dispenser comprising:

- a chamber having a first and second end, the chamber to
- 4 receive chocolate at the first end,
- a heater adjacent the chamber to heat chocolate
- a nozzle adjacent the second end of the chamber, the nozzle
- 7 having an opening to allow chocolate to exit the portable
- 8 chocolate dispenser;
- 9 and,
- a means to apply pressure to chocolate to force it from the
- 11 second end of the chamber through the opening in the nozzle.
- 1 2. The portable chocolate dispenser of claim 1 wherein
- the portable chocolate dispenser is a toy for use by
- 3 children.
- 1 3. The portable chocolate dispenser of claim 1 wherein
- the means to apply pressure is a plunger, the plunger
- 3 having a piston, the piston of the plunger to be inserted into
- 4 the first end of the chamber to apply pressure to chocolate.
- 1 4. The portable chocolate dispenser of claim 1 wherein
- the means to apply pressure is a squeeze bulb, the squeeze
- 3 bulb having a one-way air valve, the squeeze bulb coupled to the
- 4 first end of the chamber to apply pressure to chocolate.
- 1 5. The portable chocolate dispenser of claim 1 wherein

- 2 the means to apply pressure is a flexible bladder, the
- 3 chamber having the flexible bladder and a fill tube cap, the
- 4 fill tube cap to couple to the first end of the chamber, the
- 5 flexible bladder to apply pressure to chocolate.
- 1 6. The portable chocolate dispenser of claim 1 wherein
- the chamber is dimensioned to received chocolate through
- 3 the first end.
- The portable chocolate dispenser of claim 1 wherein
- 2 the chocolate received at the first end of the chamber is
- 3 solid chocolate, the heater to heat the solid chocolate to
- 4 liquid chocolate, and the means to apply pressure to force the
- 5 liquid chocolate from the second end of the chamber and through
- 6 the opening in the nozzle.
- 1 8. The portable chocolate dispenser of claim 1 wherein
- 2 the heater to heat the chamber up to a temperature of one
- 3 hundred and five degrees Fahrenheit.
- 1 9. The portable chocolate dispenser of claim 1 wherein
- 2 the heater to heat the chamber over a temperature range of
- 3 eighty six to one hundred and twenty degrees Fahrenheit.
- 1 10. The portable chocolate dispenser of claim 1 wherein
- 2 the heater to heat the chamber to a melting point of solid
- 3 chocolate.
- 1 11. The portable chocolate dispenser of claim 4 wherein

- 2 the heater to heat the chamber over a temperature range of
- 3 eighty six to ninety six degrees Fahrenheit.
- 1 12. The portable chocolate dispenser of claim 1 wherein
- 2 the chocolate to be received by the chamber is a chocolate rod
- 3 in its solid state.
- 1 13. The portable chocolate dispenser of claim 1 wherein
- 2 the chocolate to be received by the chamber is a chocolate chip
- 3 in its solid state.
- 1 14. The portable chocolate dispenser of claim 1 wherein
- 2 the chocolate to be received by the chamber is a chocolate ball
- 3 in its solid state.
- 1 15. The portable chocolate dispenser of claim 1 wherein
- 2 the chocolate to be received by the chamber is a chocolate
- 3 powder in its solid state.
- 1 16. The portable chocolate dispenser of claim 1 wherein
- 2 the plunger includes a handle at an end of the rod to manually
- 3 apply pressure to dispense liquid chocolate from the chamber.
- 1 17. The portable chocolate dispenser of claim 1 wherein
- 2 the plunger includes a rack along an edge of the rod and the
- 3 chocolate dispenser further includes
- a ratchet to engage the rack of the plunger to apply
- 5 pressure to dispense liquid chocolate from the chamber.
- 1 18. The portable chocolate dispenser of claim 1 wherein

- the plunger includes a male thread along an outer surface
- 3 of the rod and a handle at an end of the plunger, and
- 4 the chocolate dispenser further includes
- a female thread adjacent the end of the chamber to engage
- 6 the male thread of the plunger,
- 7 the handle to rotate the plunger to apply pressure to
- 8 dispense liquid chocolate from the chamber.
- 1 19. The portable chocolate dispenser of claim 12 wherein
- 2 the handle is a hand crank handle.
- 1 20. The portable chocolate dispenser of claim 12 wherein
- the handle is a rotatable handle or knob.
- 1 21. The portable chocolate dispenser of claim 1 wherein
- the plunger includes a male thread along an outer surface
- 3 of the rod and a first gear near an end, and
- 4 the chocolate dispenser further includes
- a female thread adjacent the end of the chamber to threadly
- 6 engage the male thread of the plunger, and
- 7 a motor having a second gear to engage the first gear and
- 8 to rotate the plunger to thread it into the chamber and apply
- 9 pressure to dispense liquid chocolate.
- 1 22. The portable chocolate dispenser of claim 1 wherein
- 2 the piston of the plunger slideningly engages a wall of the
- 3 chamber.
- 1 23. A method of extruding chocolate comprising:
- placing chocolate into a chamber;

- 3 heating the chamber with an electric heater to heat the
- 4 chocolate therein; and
- 5 evacuating a portion of the chocolate in the chamber
- 6 through an opening in a nozzle.
- 1 24. The method of claim 23 wherein
- 2 the heating of the chamber is to a temperature above a
- 3 melting point of solid chocolate.
- 1 25. The method of claim 24 wherein
- the melting point of solid chocolate is a temperature range
- 3 from eighty six to ninety six degrees Fahrenheit.
- 1 26. The method of claim 23 wherein
- 2 the evacuating of the portion of the chocolate in the
- 3 chamber is applying gas pressure to the chocolate in the
- 4 chamber.
- 1 27. The method of claim 26 wherein
- the applying gas pressure to the chocolate in the chamber
- 3 is by a squeeze bulb.
- 1 28. The method of claim 23 wherein
- 2 the evacuating of the portion of the chocolate in the
- 3 chamber is applying mechanical pressure to the chocolate in the
- 4 chamber.
- 1 29. The method of claim 28 wherein
- the applying mechanical pressure to the chocolate in the
- 3 chamber is by a flexible bladder.

- 1 30. The method of claim 28 wherein
- 2 the applying mechanical pressure to the chocolate in the
- 3 chamber is by a plunger having a piston.
- 1 31. The method of claim 23 wherein
- 2 the heating of the chamber with the heater turns solid
- 3 chocolate to liquid chocolate.
- 1 32. The method of claim 31 wherein
- 2 the heating of the chamber over a temperature range of
- 3 eighty six to ninety six degrees Fahrenheit.
- 1 33. A method of dispensing chocolate comprising:
- 2 providing a portable chocolate dispenser including a heat
- 3 chamber, a heater, a nozzle, and a means to apply pressure;
- 4 placing chocolate into the heat chamber;
- 5 closing the heat chamber;
- 6 heating the heat chamber with the heater; and
- 7 applying pressure to the chocolate using the means to apply
- 8 pressure to force a portion of the chocolate out through the
- 9 nozzle of the portable chocolate dispenser.
- 1 34. The method of claim 33 wherein
- the heating of the heat chamber is to a temperature above a
- 3 melting point of solid chocolate.
- 1 35. The method of claim 34 wherein
- 2 the melting point of solid chocolate is a temperature range
- 3 from eighty six to ninety six degrees Fahrenheit.

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- 1 36. The method of claim 33 wherein
- 2 the means to apply pressure is a plunger having a piston,
- 3 and
- 4 the closing of the chamber is inserting the piston of the
- 5 plunger into the heat chamber.
- 1 37. The method of claim 33 wherein
- the means to apply pressure is a squeeze bulb having a one-
- 3 way air valve, and
- 4 the closing of the chamber is coupling the squeeze bulb to
- 5 an end of the heat chamber.
- 1 38. The method of claim 33 wherein
- 2 the means to apply pressure is a flexible bladder, the heat
- 3 chamber including the flexible bladder, and
- 4 the closing of the chamber is coupling a fill cap to an end
- 5 of the heat chamber.
- 1 39. The method of claim 33 wherein
- 2 the heating of the heat chamber with the heater turns solid
- 3 chocolate to liquid chocolate.
- 1 40. A portable chocolate dispenser comprising:
- 2 a heating chamber to receive solid chocolate at a first end
- 3 and allow liquid chocolate to exit a second end;
- 4 a heater thermally coupled to the heating chamber, the
- 5 heater to heat the heating chamber to a temperature to melt
- 6 solid chocolate into a liquid chocolate;

- 7 a nozzle coupled to the second end of the heating chamber
- 8 to receive liquid chocolate, the nozzle having an orifice to
- 9 dispense liquid chocolate; and
- a plunger having a piston at a first end of a rod, the
- 11 piston of the plunger to be inserted into the first end of the
- 12 heating chamber and to apply pressure to liquid chocolate in the
- 13 heating chamber.
- 1 41. The portable chocolate dispenser of claim 40 wherein
- 2 the portable chocolate dispenser is a toy chocolate
- 3 dispenser for use by children.
- 1 42. The portable chocolate dispenser of claim 40 wherein
- 2 the portable chocolate dispenser is a portable commercial
- 3 chocolate dispenser for use by bakers.
- 1 43. The portable chocolate dispenser of claim 40 wherein
- 2 the heater to heat the heating chamber to a temperature above a
- 3 melting point of solid chocolate.
- 1 44. The portable chocolate dispenser of claim 43 wherein
- 2 the melting point of solid chocolate is a temperature range from
- 3 eighty six to ninety six degrees Fahrenheit.
- 1 45. The portable chocolate dispenser of claim 40 further
- 2 comprising:
- a first housing to hold the heating chamber, the heater,
- 4 and the nozzle coupled together.

- 1 46. The portable chocolate dispenser of claim 45 further
- 2 comprising:
- 3 a second housing to slideningly hold the plunger, the
- 4 second housing to couple to the first housing.
- 1 47. The portable chocolate dispenser of claim 40 wherein,
- 2 the orifice of the nozzle is small to write using liquid
- 3 chocolate.
- 1 48. The portable chocolate dispenser of claim 40 wherein,
- the orifice of the nozzle is shaped to dispense liquid
- 3 chocolate into a decorative pattern.
- 49. The portable chocolate dispenser of claim 40 wherein,
- 2 the orifice of the nozzle is of sufficient size to quickly
- 3 dispense liquid chocolate into a mold.
- 1 50. The portable chocolate dispenser of claim 40 wherein
- 2 the plunger includes a handle at a second end of the rod to
- 3 manually apply pressure to liquid chocolate in the heating
- 4 chamber.
- 1 51. The portable chocolate dispenser of claim 40 wherein
- 2 the plunger includes a rack along an edge of the rod and
- 3 the portable chocolate dispenser further includes
- 4 a ratchet to engage the rack of the plunger to semi-
- 5 automatically apply pressure to liquid chocolate in the heating
- 6 chamber.

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1 52. The portable chocolate dispenser of claim 40 further

- 2 comprising:
- 3 a lever actuator to engage the rod of the plunger and to
- 4 apply pressure to liquid chocolate in the heating chamber.
- 1 53. The portable chocolate dispenser of claim 52 further
- 2 comprising:
- 3 a releasable lock lever to engage the rod of the plunger
- and to resist movement of the plunger. 4
- 1 54. The portable chocolate dispenser of claim 53 further
- 2 comprising:

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- 3 a second housing to couple to the first housing, the second
- 4 housing to engage an end of the releasable lock lever and the
- <u>5</u> lever actuator and to slideningly engage the plunger.
 - 1 A chocolate dispenser for use by children as a toy,
- **2** the chocolate dispenser comprising:
- **1** 3 a case including
 - a chamber having a first and second end, the chamber
 - 5 to receive chocolate,
 - 6 a heater adjacent the chamber to heat chocolate to a
 - 7 liquid state, and,
 - 8 a nozzle adjacent the first end of the chamber, the
 - 9 nozzle having an opening to dispense liquid chocolate;
 - 10 and,
 - 11 a plunger having a piston, the piston of the plunger to be
 - 12 inserted into the second end of the chamber to apply pressure to

13 liquid chocolate and dispense it from the chamber through the

- 14 opening in the nozzle.
- 1 A portable chocolate dispenser comprising:
- 2 a heating chamber to receive solid chocolate at a first end
- 3 and allow liquid chocolate to exit a second end;
- 4 a heater thermally coupled to the heating chamber, the
- 5 heater to heat the heating chamber to a temperature to melt
- 6 solid chocolate into a liquid chocolate;
- 7 a nozzle coupled to the second end of the heating chamber
- 8 to receive liquid chocolate, the nozzle having an orifice to
- 9 dispense liquid chocolate; and

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- 10 a squeeze bulb having a one-way air valve, the squeeze bulb
- 11 coupled to the first end of the heating chamber to apply
- 12 pressure to liquid chocolate in the heating chamber.
 - 1 57. The portable chocolate dispenser of claim 56 wherein
 - 2 the squeeze bulb has a seal to engage a slot near the top
 - of the heating chamber to form a gas tight seal.
- 1 1 The portable chocolate dispenser of claim 56 wherein
 - 2 the portable chocolate dispenser is a toy chocolate
 - 3 dispenser for use by children.
 - 1 The portable chocolate dispenser of claim 56 wherein
 - 2 the portable chocolate dispenser is a portable commercial
 - 3 chocolate dispenser for use by bakers.
 - 1 The portable chocolate dispenser of claim 56 wherein 60.

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the heater to heat the heating chamber to a temperature above a 2

- 3 melting point of solid chocolate.
- 1 61. The portable chocolate dispenser of claim 60 wherein
- the melting point of solid chocolate is a temperature range from 2
- eighty six to ninety six degrees Fahrenheit. 3
- 1 The portable chocolate dispenser of claim 56 further 62.
- 2 comprising:
- a housing to hold the heating chamber, the heater, and the 3
- 4 nozzle coupled together.
- 1 2 2 1.3 A portable chocolate dispenser comprising:
 - a collapsible heating chamber to receive solid chocolate at
 - a first end and allow liquid chocolate to exit a second end, the
- collapsible heating chamber including 4 m
- **5** a flexible bladder on a side of the collapsible
 - heating chamber, the flexible to apply pressure to liquid 6
- chocolate in the collapsible heating chamber;
- 回 8 回 9 a heater thermally coupled to the collapsible heating
 - chamber, the heater to heat the collapsible heating chamber to a
 - 10 temperature to melt solid chocolate into a liquid chocolate;
 - 11 a nozzle coupled to the second end of the collapsible
 - heating chamber to receive liquid chocolate, the nozzle having 12
 - an orifice to dispense liquid chocolate; and 13
 - 14 a stopper to couple to the first end of the collapsible
 - 15 heating chamber.
 - 1 64. The portable chocolate dispenser of claim 63 wherein

- 2 the flexible bladder has a top seal and a bottom seal to
- 3 engage a housing of the portable chocolate dispenser.
- 1 65. The portable chocolate dispenser of claim 63 wherein
- 2 the portable chocolate dispenser is a toy chocolate
- 3 dispenser for use by children.
- 1 66. The portable chocolate dispenser of claim 63 wherein
- 2 the portable chocolate dispenser is a portable commercial
- 3 chocolate dispenser for use by bakers.
- 1 67. The portable chocolate dispenser of claim 63 wherein
- 2 the heater to heat the collapsible heating chamber to a
- 3 temperature above a melting point of solid chocolate.
- 1 68. The portable chocolate dispenser of claim 67 wherein
- 2 the melting point of solid chocolate is a temperature range from
- 3 eighty six to ninety six degrees Fahrenheit.
- 1 69. The portable chocolate dispenser of claim 63 further
- 2 comprising:
 - a housing to hold the collapsible heating chamber, the
 - 4 heater, and the nozzle coupled together.
 - 1 70. A playset for children comprising:
 - 2 a toy chocolate dispenser including
 - a heating chamber to receive solid chocolate, and
 - 4 a heater thermally coupled to the heating chamber to
 - 5 melt solid chocolate into liquid chocolate;
 - 6 and

- 7 a dispensing station to support the toy chocolate dispenser
- 8 and to dispense liquid chocolate in a dispensing area of the
- 9 dispensing station.
- 1 71. The playset of claim 70 wherein
- 2 the heater to heat the heating chamber to a temperature
- 3 above a melting point of solid chocolate.
- 1 72. The playset of claim 71 wherein
- 2 the melting point of solid chocolate is a temperature range
- 3 from eighty six to ninety six degrees Fahrenheit.
- 1 73. The playset of claim 70 wherein,
- 2 the dispensing station includes
- a base having the dispensing area where liquid
- chocolate is to be dispensed by the toy chocolate dispenser.
- 1 74. The playset of claim 73 wherein,
- 2 the dispensing station further includes
- a support structure coupled to the base to support the
- 4 toy chocolate dispenser, the support structure having an opening
- 5 to receive the toy chocolate dispenser and point it towards the
- 6 dispensing area.
- 7 75. The playset of claim 70 wherein,
- 8 the dispensing station includes
- 9 a turntable to rotate an object to the dispensing
- 10 area, and
- a base to rotatably support the turntable.

1 The playset of claim 75 wherein, 2 the dispensing station further includes 3 a tapper to tap the turntable to settle liquid 4 chocolate in a mold. 1 The playset of claim 75 wherein, 2 the dispensing station further includes 3 a mold tray to rest on the turntable to receive 4 liquid chocolate in the dispensing area, the mold tray 5 having one or more mold cavities, and 6 a tapper to tap the turntable to settle liquid 7 chocolate in the one or more mold cavities of the mold tray. 1 78. The playset of claim 75 wherein, the dispensing station further includes 3 a support structure coupled to the base to support the 4 toy chocolate dispenser, the support structure having an opening 5 to receive the toy chocolate dispenser and point it towards the **1** 6 dispensing area.

- 79. The playset of claim 70 wherein,
 the toy chocolate dispenser further includes
 a nozzle to receive liquid chocolate from the heating
 chamber and to dispense liquid chocolate, and
 a plunger having a piston inserted into the heating
 chamber to apply pressure to liquid chocolate.
 - 80. The playset of claim 70 further comprising:

- 2 a toy character; and
- 3 a toy background.
- 1 81. The playset of claim 70 wherein,
- 2 the toy character is a baker, and
- 3 the toy background is a scene of a bakery.
- 1 82. The playset of claim 70 further comprising:
- a cooling tray to cool liquid chocolate in a mold into
- 3 solid chocolate.
- 1 83. The playset of claim 70 wherein
- 2 the toy chocolate dispenser has a first housing and a
- 3 second housing, the first housing of the toy chocolate dispenser
- . 4 to be inserted into an opening in the dispensing station with
- 5 the second housing to rest on the dispensing station to support
- 6 the toy chocolate dispenser.
- 1 84. A chocolate dispensing station comprising:
- 2 a portable chocolate dispenser including
- 3 a heating chamber to receive solid chocolate, and
- 4 a heater thermally coupled to the heating chamber to melt
- 5 solid chocolate into liquid chocolate;
- 6 and
- 7 a support structure to hold the portable chocolate
- 8 dispenser and to dispense liquid chocolate in a dispensing area.
- 1 85. The chocolate dispensing station of claim 84 wherein
- 2 the heater to heat the heating chamber to a temperature of
- 3 above a melting point of solid chocolate.

1 The chocolate dispensing station of claim 85 wherein 86.

- 2 the melting point of solid chocolate is a temperature range
- from eighty six to ninety six degrees Fahrenheit. 3
- 1 87. The chocolate dispensing station of claim 84 further
- 2 comprising:

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- 3 a cooling tray to cool liquid chocolate in a mold into
- 4 solid chocolate.
- 1 The chocolate dispensing station of claim 84 further 2 comprising:
- 3 Q 4 L 4 D 1 a turntable to rotate an object to the dispensing area; and
 - a base to rotatably support the turntable.
 - 89. The chocolate dispensing station of claim 88 further 2 comprising:
 - 3 a tapper to tap the turntable to settle liquid chocolate.
- 90. The chocolate dispensing station of claim 88 further 2 comprising:
 - 3 a mold tray to rest on the turntable to receive liquid
 - 4 chocolate in the dispensing area, the mold tray having one or
 - 5 more mold cavities, and
 - 6 a tapper to tap the turntable to settle liquid chocolate in
 - the one or more mold cavities of the mold tray. 7
 - 1 91. The chocolate dispensing station of claim 84 wherein,
 - 2 the portable chocolate dispenser further includes

- 3 a nozzle to receive liquid chocolate from the heating
- 4 chamber and to dispense liquid chocolate, and
- 5 a plunger having a piston inserted into the heating
- 6 chamber to apply pressure to liquid chocolate.